# Safety data sheet

ClearBand Laemmli Sample Buffer (4x)

| | |
|---|---|
| Product name<br>ClearBand Laemmli Sample Buffer (4x) | Catalog no.<br>LSB-4x |
| Synonyms<br>Laemmli sample loading buffer, 4x | Original SDS revision<br>- |
| CAS no.<br>- | Format version / date<br>3 / 25 October 2026 |

## 01 PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| Product identifier | ClearBand Laemmli Sample Buffer (4x) |
| Product code | LSB-4x |
| CAS number | - |
| EC number | - |
| Recommended use | Concentrated protein sample loading buffer for research use only. |
| Supplier | EcoTech Biotechnology |
| Website | www.ecotechbiotech.com |
| Address | Universite Mah. İpekyolu Cad. Ata Teknokent Sitesi B Blok No: Z10 Yakutiye Erzurum Türkiye |
| Telephone | 0090 544 327 34 97 |
| SDS contact | info@ecotechbiotech.com |
| Emergency telephone | 0090 544 327 34 97 |
| Available | Monday-Saturday/08:00-20:00/GMT+3 |
| Languages | Turkish/English |
| Outside these hours | Contact: info@ecotechbiotech.com |

## 02 HAZARDS IDENTIFICATION

| | |
|---|---|
| GHS/CLP classification | Not classified as hazardous according to Regulation (EC) No. 1272/2008 (CLP). |
| GHS H-statements | None |
| GHS pictograms | None |
| Signal word | None |
| Precautionary statements - prevention | None |
| Precautionary statements - response | None |
| Other hazards | None known. |

# Composition & response

ClearBand Laemmli Sample Buffer (4x) | SAFETY DATA SHEET / SECTIONS 03-05

## 03 COMPOSITION / INFORMATION ON INGREDIENTS

| | |
|---|---|
| Product name | ClearBand Laemmli Sample Buffer (4x) |
| Synonyms | Laemmli sample loading buffer, 4x |
| Concentration | 4× |
| Formula | - (mixture) |
| Molecular weight | - (mixture) |
| Product form | Liquid mixture |
| Composition | This product is a liquid mixture (4x concentrate). No components require disclosure according to the applicable classification criteria. |

## 04 FIRST AID MEASURES

### 4.1 Description of first aid measures

| | |
|---|---|
| Eye contact | Immediately rinse eyes, including under eyelids, with plenty of water for at least 15 minutes. Seek medical advice if irritation occurs. |
| Skin contact | Wash with plenty of water for at least 15 minutes. Remove contaminated clothing. |
| Inhalation | Move to fresh air. Seek medical advice if discomfort occurs. |
| Ingestion | Rinse mouth and drink water if conscious. Do not induce vomiting. Seek medical attention. |
| Self-protection of the first aider | Use appropriate personal protective equipment. |
| Most important symptoms / effects | The toxicological information includes reports of serious eye irritation or damage. |
| Immediate medical attention / treatment | Treat symptomatically. |

## 05 FIREFIGHTING MEASURES

| | |
|---|---|
| Suitable extinguishing media | Use extinguishing measures appropriate for the surrounding environment. |
| Unsuitable extinguishing media | No data available |
| Specific hazards arising from the mixture | No special hazards are established. |
| Explosion data | Impact and static-discharge sensitivity: no information available. |
| Advice for firefighters | Wear self-contained breathing apparatus and full protective equipment if necessary. |

# Safe use & protection

ClearBand Laemmli Sample Buffer (4x) | SAFETY DATA SHEET / SECTIONS 06-08

## 06 ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | Use personal protective equipment, avoid contact with eyes or skin and isolate spill area. |
| Environmental precautions | Prevent uncontrolled release into drains, sewers and surface waters. |
| Methods and materials for containment and cleaning up | Collect spilled liquid in suitable closed containers for disposal. |
| Reference to other sections | See Section 8 for protection and Section 13 for disposal. |

## 07 HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Ensure adequate ventilation and use personal protective equipment. Avoid eye and skin contact. |
| Conditions for safe storage | Keep containers tightly closed and store at 22-25°C in a dry, ventilated place. |
| Container labelling | Keep containers properly labelled. |

## 08 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

No specific mixture occupational exposure limit values are identified.

### 8.2 Exposure controls

| | |
|---|---|
| Engineering measures | Ensure adequate ventilation, especially in confined areas. |
| Hygiene measures | Use good laboratory and industrial hygiene. Do not eat, drink or smoke while handling. Wash hands after use. |
| Eye / face protection | Wear safety glasses with side shields or protective goggles conforming to EN 166. |
| Hand protection | Wear suitable chemical-resistant gloves; inspect gloves before use. |
| Skin and body protection | Wear a laboratory coat or suitable protective clothing. |
| Respiratory protection | Use suitable respiratory protection when ventilation is insufficient. |

# Material properties

ClearBand Laemmli Sample Buffer (4x) | SAFETY DATA SHEET / SECTIONS 09-10

## 09 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

| | |
|---|---|
| Appearance | Liquid |
| Odor | Odorless |
| Odor threshold | No data available |
| pH | No data available |
| Melting point / freezing point | No data available |
| Initial boiling point and boiling range | No data available |
| Flash point | No data available |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |
| Upper / lower flammability or explosive limits | No data available |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density | No data available |
| Solubility(ies) | No data available |
| Partition coefficient: n-octanol / water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | No data available |
| Explosive properties | No data available |
| Oxidizing properties | No data available |

## 10 STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity | Stable. |
| Chemical stability | Stable in a cool and dry place. |
| Possibility of hazardous reactions | No data available |
| Conditions to avoid | No data available |
| Incompatible materials | Oxidizing agents. |
| Hazardous decomposition products | No data available |

# Health & environment

ClearBand Laemmli Sample Buffer (4x) | SAFETY DATA SHEET / SECTIONS 11-13

## 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

| | |
|---|---|
| Acute toxicity | Sodium dodecyl sulfate (ingredient) reference values: oral LD50 rat 1,288 mg/kg; dermal LD50 rabbit 580 mg/kg; inhalation rat 3,900 mg/m³ (1 h). These are not whole-mixture LD50 values. |
| Skin corrosion / irritation | Mixture-specific skin corrosion / irritation data not available. |
| Serious eye damage / eye irritation | Serious eye damage is described in toxicological information, although no hazard class is assigned in Section 2. |
| Carcinogenicity | No carcinogenic ingredients identified in the listed agencies. |
| Reproductive toxicity | No data available. |
| STOT - SE | No data available |
| STOT - RE | No data available |
| Aspiration hazard | No data available |

### 11.2 Potential health effects

Ingestion: May be harmful if swallowed.
Inhalation: May cause respiratory tract irritation.
Skin: May cause irritation.
Eyes: Serious eye irritation / damage is reported.

### 11.3 Additional information

No additional information is available

## 12 ECOLOGICAL INFORMATION

| | |
|---|---|
| Ecotoxicity | Environmental effect of the complete mixture is not established. Ingredient sodium dodecyl sulfate: fish LC50 values from approximately 1.31 to 22.8 mg/L across tested species (96 h). |
| Persistence and degradability | No data available |
| Bioaccumulative potential | No data available |
| Mobility in soil | No data available |
| Results of PBT and vPvB assessment | PBT/vPvB assessment not available. |

## 13 DISPOSAL CONSIDERATIONS

### Waste treatment methods

| | |
|---|---|
| Product | Dispose through a licensed waste-disposal service in accordance with applicable local and national regulations. |
| Contaminated packaging | Dispose of as unused product. Do not reuse empty containers. |

# Transport & reference

ClearBand Laemmli Sample Buffer (4x) | SAFETY DATA SHEET / SECTIONS 14-16

## 14 TRANSPORT INFORMATION

| Mode | UN no. | UN proper shipping name | Hazard class | Packing group | Environmental hazards |
|---|---|---|---|---|---|
| DOT (US) | - | Not regulated as dangerous goods | - | - | No |
| IMDG | - | Not regulated as dangerous goods | - | - | No |
| IATA | - | Not regulated as dangerous goods | - | - | No |

- = Not applicable / not assigned.

| | |
|---|---|
| Special precautions for user | Keep tightly closed during transport. Follow normal laboratory precautions. |
| Transport in bulk according to MARPOL / IBC | Not applicable. |

## 15 REGULATORY INFORMATION

| | |
|---|---|
| Safety, health and environmental regulations / legislation | Regulation (EC) No. 1907/2006 (REACH) and legacy EU guidance. SARA and US right-to-know components are not reported above disclosure thresholds. |
| Environmental hazards | See Section 12. |
| Chemical safety assessment | - |

## 16 OTHER INFORMATION

**Key to abbreviations and acronyms**

| | |
|---|---|
| STOT-SE | Specific Target Organ Toxicity - Single Exposure |
| STOT-RE | Specific Target Organ Toxicity - Repeated Exposure |
| PBT | Persistent, Bioaccumulative and Toxic |
| vPvB | Very Persistent and Very Bioaccumulative |
| ADR | Agreement concerning the International Carriage of Dangerous Goods by Road |
| CAS | Chemical Abstracts Service |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods Code |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |